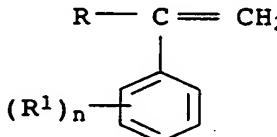


Amended patent claims

1. A thermoplastic molding composition comprising components A, B, C and D, and also, where appropriate, E, F, G and H, the entirety of which gives 100% by weight:
  - A) from 1 to 97.5% by weight of at least one aromatic polycarbonate A,
  - B) from 1 to 97.5% by weight of at least one graft polymer B made from
    - b1) from 40 to 80% by weight of a graft base made from an elastomeric polymer B1 based on alkyl acrylates having from 1 to 8 carbon atoms in the alkyl radical, on ethylene-propylene, on dienes, or on siloxanes, and having a glass transition temperature below 0°C,
    - b2) from 20 to 60% by weight of a graft B2 made from b21) from 60 to 95% by weight of styrene or of substituted styrenes B21 of the formula I
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(I)
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where R is C<sub>1-8</sub>-alkyl or hydrogen and R<sup>1</sup> is C<sub>1-8</sub>-alkyl and n is 1, 2 or 3, or a mixture of these, and
- 35  
b22) from 5 to 40% by weight of at least one unsaturated nitrile B22,
- 40  
C) from 1 to 97.5% by weight of at least one thermoplastic copolymer C made from
  - c1) from 60 to 85% by weight of styrene or of substituted styrenes C1 of the formula I, or a mixture of these compounds, and
  - c2) from 15 to 40% by weight of at least one unsaturated nitrile C2,

D) from 0.5 to 50% by weight of at least one copolymer D,  
obtainable via reaction of

5           d1) from 5 to 95% by weight of at least one  
thermoplastic methacrylate polymer D1 containing at  
least one type of functional groups selected from  
epoxy, carboxy, hydroxy, anhydride and oxazoline,  
with

10           d2) from 5 to 95% by weight of at least one  
thermoplastic polyester D2,

E) from 0 to 40% by weight of at least one filler E,

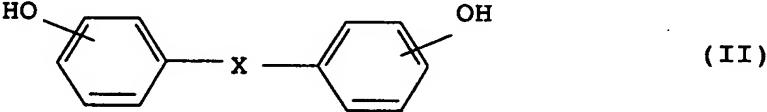
15           F) from 0 to 2% by weight of at least one organic acid F,

G) from 0 to 25% by weight of at least one halogen-free  
phosphorus compound G,

20           H) from 0 to 45% by weight of other additives H.

2. A molding composition as claimed in claim 1, where the  
polycarbonates A are based on biphenols of the formula II

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30           where X is a single bond, C<sub>1-3</sub>-alkylene, C<sub>2-C<sub>3</sub></sub>-alkylidene,  
C<sub>3-6</sub>-cycloalkylidene, or else -S- or -SO<sub>2</sub>-.

3. A molding composition as claimed in claim 1 or 2, where the  
35           graft base B1 of the graft copolymer B is composed of

b11) from 70 to 99.9% by weight of at least one alkyl  
acrylate B11 having from 1 to 8 carbon atoms in the  
alkyl radical,

40           b12) from 0 to 30% by weight of another copolymerizable  
monoethylenically unsaturated monomer B12, or a mixture  
of these,

45           b13) from 0.1 to 5% by weight of a copolymerizable,  
polyfunctional crosslinking monomer B13,

where the entirety of B11, B12 and B13 gives 100% by weight.

4. A molding composition as claimed in any of claims 1 to 3, where the copolymer C is composed of from 70 to 83% by weight of styrene and from 17 to 30% by weight of acrylonitrile.
5. A molding composition as claimed in any of claims 1 to 4, where the methacrylate polymer D1 is composed of
  - 10 d11) from 80 to 99.9% by weight of methyl methacrylate D11,
  - d12) from 0 to 19.9% by weight of at least one other acrylate or methacrylate D12, and
  - 15 d13) from 0.1 to 10% by weight of at least one monomer D13, containing at least one type of functional groups selected from epoxy, carboxy, hydroxy, anhydride and oxazoline,
- 20 where the entirety of D11, D12 and D13 gives 100% by weight.
6. A molding composition as claimed in any of claims 1 to 5, where the monomer D13 used comprises glycidyl methacrylate, allyl glycidyl ether, isopropenyl glycidyl ether, or a mixture of these.
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7. A molding composition as claimed in any of claims 1 to 6, where the copolymer D is obtainable via melt compounding of the methacrylate polymers D1 with the polyester D2.
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8. A molding composition as claimed in any of claims 1 to 7, where the filler D has been selected from the group consisting of particulate mineral fillers, fibrous fillers, and mixtures of these.
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9. A process for preparing molding compositions as claimed in any of claims 1 to 7, by mixing the dry components A to D and, where appropriate, E to H at from 200 to 320°C.
- 40 10. The use of molding compositions as claimed in any of claims 1 to 7 for producing moldings, fibers or films.
11. The use as claimed in claim 10 for producing bodywork parts.
- 45 12. A molding, a fiber, or a film, made from a molding composition as claimed in any of claims 1 to 8.

13. A molding as claimed in claim 12 in the form of a bodywork part.

14. The use of copolymers D as defined in claim 1 as  
5 compatibilizer in molding compositions in which  
polycarbonates, graft polymers, and styrene copolymers are  
present.

15. A copolymer D, obtainable via reaction of  
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d1) from 5 to 95% by weight of at least one  
thermoplastic methacrylate polymer D1 composed of

15 d11) from 80 to 99.9% by weight, preferably from 85 to  
99.3% by weight, and in particular from 90 to 98.9%  
by weight, of MMA (component D11),

20 d12) from 0 to 19.9% by weight, preferably from 0.5 to  
14.8% by weight, and in particular from 0.6 to 9.5%  
by weight, of at least one other acrylate or  
methacrylate D12, and

25 d13) from 0.1 to 20% by weight, preferably from 0.2 to 15%  
by weight, and in particular from 0.5 to 10% by  
weight, of at least one monomer D13 containing at  
least one type of functional groups selected from  
epoxy, carboxy, hydroxy, anhydride, and oxazoline,

30 where the entirety of d11), d12), and d13) gives 100% by  
weight,  
with

35 d2) from 5 to 95% of at least one thermoplastic polyester  
D2, selected from polyethylene terephthalate and  
polybutylene terephthalate, or a mixture of these.

## Polycarbonate/styrene copolymer blends with improved properties

## Abstract

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Thermoplastic molding compositions comprising the components A, B, C and D and, if appropriate, E, F, G and H,

10 A) from 1 to 97.5% by weight of at least one aromatic polycarbonate A,

B) from 1 to 97.5% by weight of at least one graft polymer B made from

15 b1) from 40 to 80% by weight of a graft base made from an elastomeric polymer B1,

b2) from 20 to 60% by weight of a graft B2 made from

20 b21) from 60 to 95% by weight of styrene or of substituted styrenes B21 and

b22) from 5 to 40% by weight of at least one unsaturated nitrile B22,

25 C) from 1 to 97.5% by weight of at least one thermoplastic copolymer C made from

30 c1) from 60 to 85% by weight of styrene or of substituted styrenes C1 or mixtures thereof and

c2) from 15 to 40% by weight of at least one unsaturated nitrile C2,

35 D) from 0.5 to 50% by weight of at least one copolymer D, obtainable via reaction of

40 d1) from 5 to 95% by weight of at least one thermoplastic methacrylate polymer D1 containing at least one type of functional groups selected from epoxy, carboxy, hydroxy, anhydride and oxazoline, with

d2) from 5 to 95% by weight of at least one thermoplastic polyester D2,

45 E) from 0 to 40% by weight of at least one filler E,

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F) from 0 to 2% by weight of at least one organic acid F,

G) from 0 to 25% by weight of at least one halogen-free phosphorus compound G,

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H) from 0 to 45% by weight of other additives H.

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